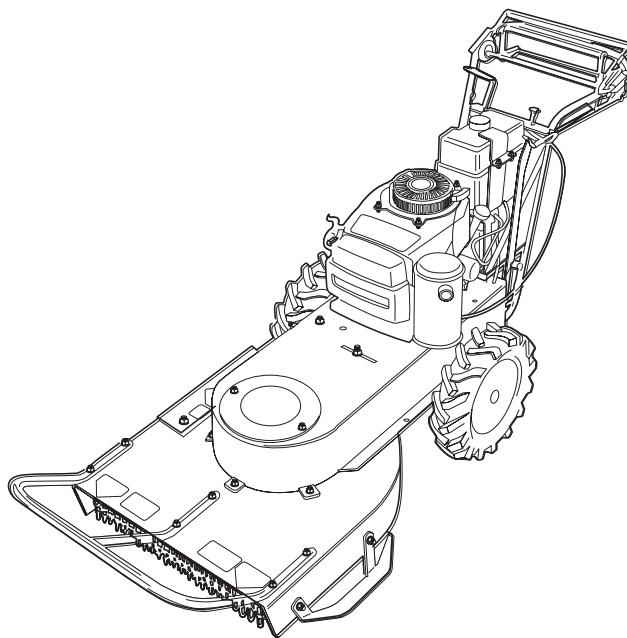




**GIANT-VAC®**



# Parts Manual



## Field and Brush Mower

### 13.5HP Tractors

Mfg. No.	Description
1694204	13.5HP, Walk-Behind Brush Mower (Simplicity)
1694251	13.5HP, Walk-Behind Brush Mower (Ferris GM2513H)
1694253	13.5HP, Walk-Behind Brush Mower (Giant-Vac GM2513H)

### 13HP Tractors

Mfg. No.	Description
1694240	13HP, Walk-Behind Brush Mower (Simplicity)
1694249	13HP, Walk-Behind Brush Mower (Ferris GM2509BS, GM2513BS)
1694254	13HP, Walk-Behind Brush Mower (Giant-Vac GM2509BS, GM2513BS)
1694378	13HP, Walk-Behind Brush Mower (Snapper FB13250BV)

### 15HP Tractors

Mfg. No.	Description
1694205	15HP, Walk-Behind Brush Mower (Simplicity)
1694250	15HP, Walk-Behind Brush Mower (Ferris GM2515AWV)
1694252	15HP, Walk-Behind Brush Mower (Giant-Vac GM2515AWV)
1694379	15HP, Walk-Behind Brush Mower (Snapper FB15250KW)

### 16HP Tractors

Mfg. No.	Description
N/A	16HP, Walk-Behind Brush Mower (Giant-Vac GM2516BS-E)

1723521-02

Rev. 01/2003

TP 400-2570-02-BC-UV



---

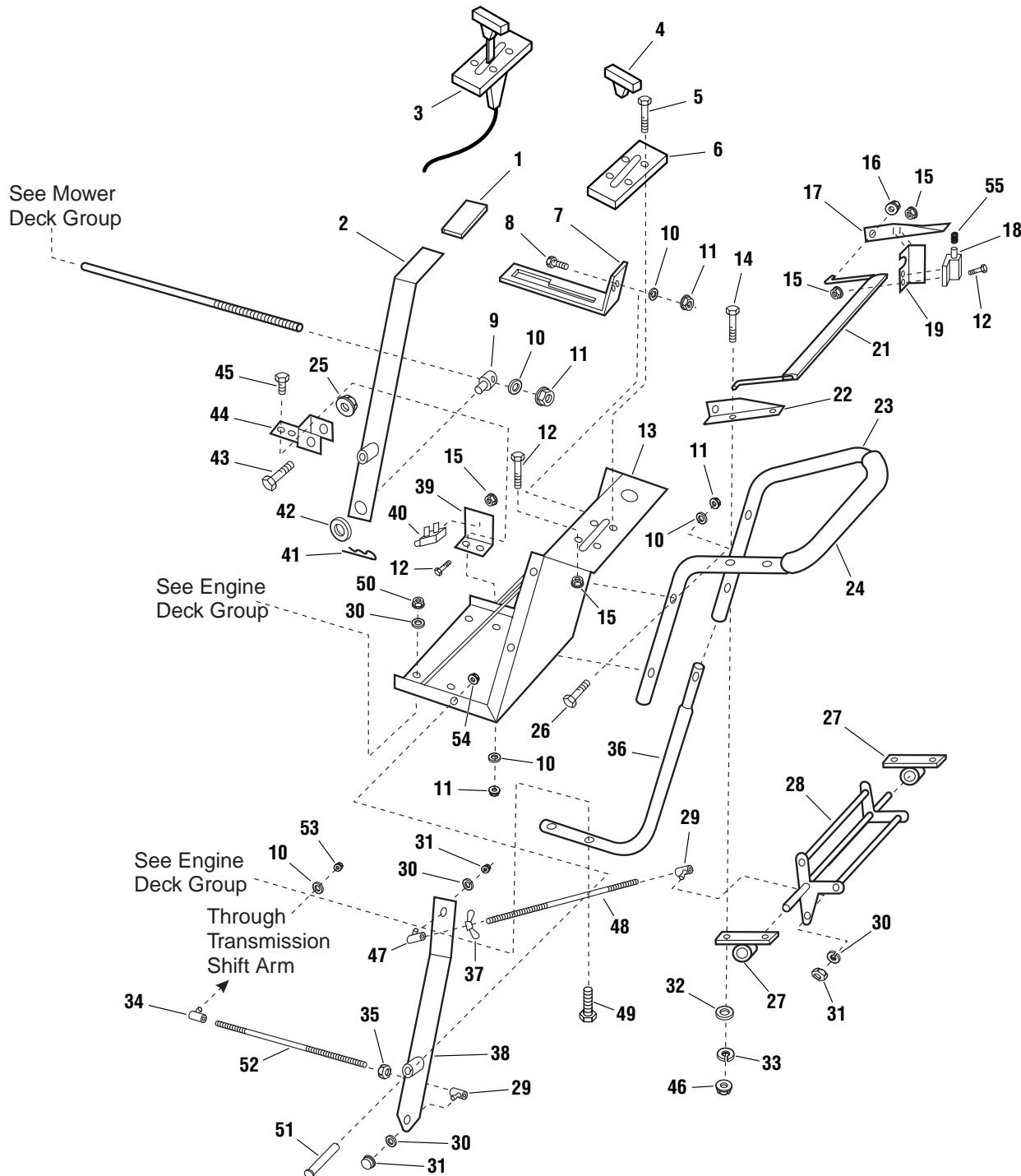
**Table Of Contents**

<b>TRACTOR / MOWER DECK COMPONENTS</b>	<b>PAGES</b>
Handle Parts Group - S/N 011903999 & Below .....	2
Handle Parts Group - S/N 012003001 & Up .....	6
Engine Deck Group - S/N 011903999 & Below .....	10
Engine Deck Group - S/N 012003001 & Up .....	14
Electrical & Misc. Group .....	18
Mower Deck Parts Group .....	20
Decals Group .....	22
<b>Torque Specification Chart .....</b>	<b>Inside Back Cover</b>

## Handle Parts Group - S/N 011903999 & Below

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.

Q986129



### The above parts group applies to the following Mfg. Nos.:

1694240 - 13HP      1694252 - 15HP  
 1694204 - 13.5HP      1694249 - 13HP  
 1694205 - 15HP      1694254 - 13HP  
 1694251 - 13.5HP  
 1694253 - 13.5HP  
 1694250 - 15HP

## Handle Parts Group - S/N 011903999 & Below

REF NO.	SIMPLICITY/FERRIS/ SNAPPER PART NO.	GIANT-VAC PART NO.	QTY.	DESCRIPTION
1	1719965	31722	1	Handle grip
2	1723595	23251	1	Blade Clutch Engagement Lever
3	1723686	35014	1	Throttle Control Cable Assembly, 13 HP Honda
3	1723625	35015	1	Throttle Control Cable Assembly, 15 HP Kawasaki
3	1723624	35013	1	Throttle Control Cable assembly, 9 HP Briggs
4	1723626	31584	1	Throttle Control, T-Handle
5	1675044	31000	2	Rivet, 3/16
6	1723623	31586	1	Throttle Speed Indicator Plate
7	1723550	27370	1	Blade Engage Lever Lock Bracket
8	1921332	31400	2	Capscrew, Hex Head, 5/16-18 x 3/4
9	1723598	31383	1	Rod, Fitting End
10	1917356	31003	14	Lockwasher, 5/16
11	1917372	31004	8	Nut, Hex, 5/16-18
12	1960600	31582	4	Screw, 8-32 x 3/4
13	1723553	10176	1	Control Deck & Dash Panel
14	1921962	31684	4	Capscrew, Hex Head, 1/4-20 x 1-3/4
15	1960222	31572	2	Nut Assembly, 8-32
16	1932718	31425	2	Push Nut, 5/16
17	1723562	27318	1	Safety Bar Pivot Bracket, Left
18	1723563	31480	1	Safety Switch
19	1723565	27320	1	Safety Switch Mounting Bracket
20	*	31582	2	Machine Screw Assembly, 8-32 x 1/2
21	1723561	23229	1	Safety Bar
22	1723566	27319	1	Safety Bar Pivot Bracket, Right
23	1723572	23227	1	Upper Handle
24	1723568	31590	1	Foam Handle Cover
25	1930644	31406	1	Nut, Hex Flangelock, 1/2-13
26	1921221	31294	4	Capscrew, Hex Head, 5/16-18 x 1-1/2
27	1723570	36244	2	Bearing, 3/4 ID
28	1723571	23248	1	Drive Engagement Bar
29	1723557	31401	1	Ball Joint, 3/8-24, LH
30	1916965	31008	4	Lockwasher, 3/8
31	1918403	31568	3	Nut, Jam, 3/8-24
32	1921319	31317	4	Flatwasher, 1/4
33	1916964	31013	4	Lockwasher, 1/4
34	1723554	31295	1	Ball Joint, 5/16-24
35	1723556	31856	1	Nut, Hex Jam, 3/8-24, LH
36	1723569	23228	2	Lower Handle
37	1723559	31721	1	Nut, Wing, 3/8-24
38	1723573	23249	1	Transmission Drive Intermediate Lever

### Footnotes

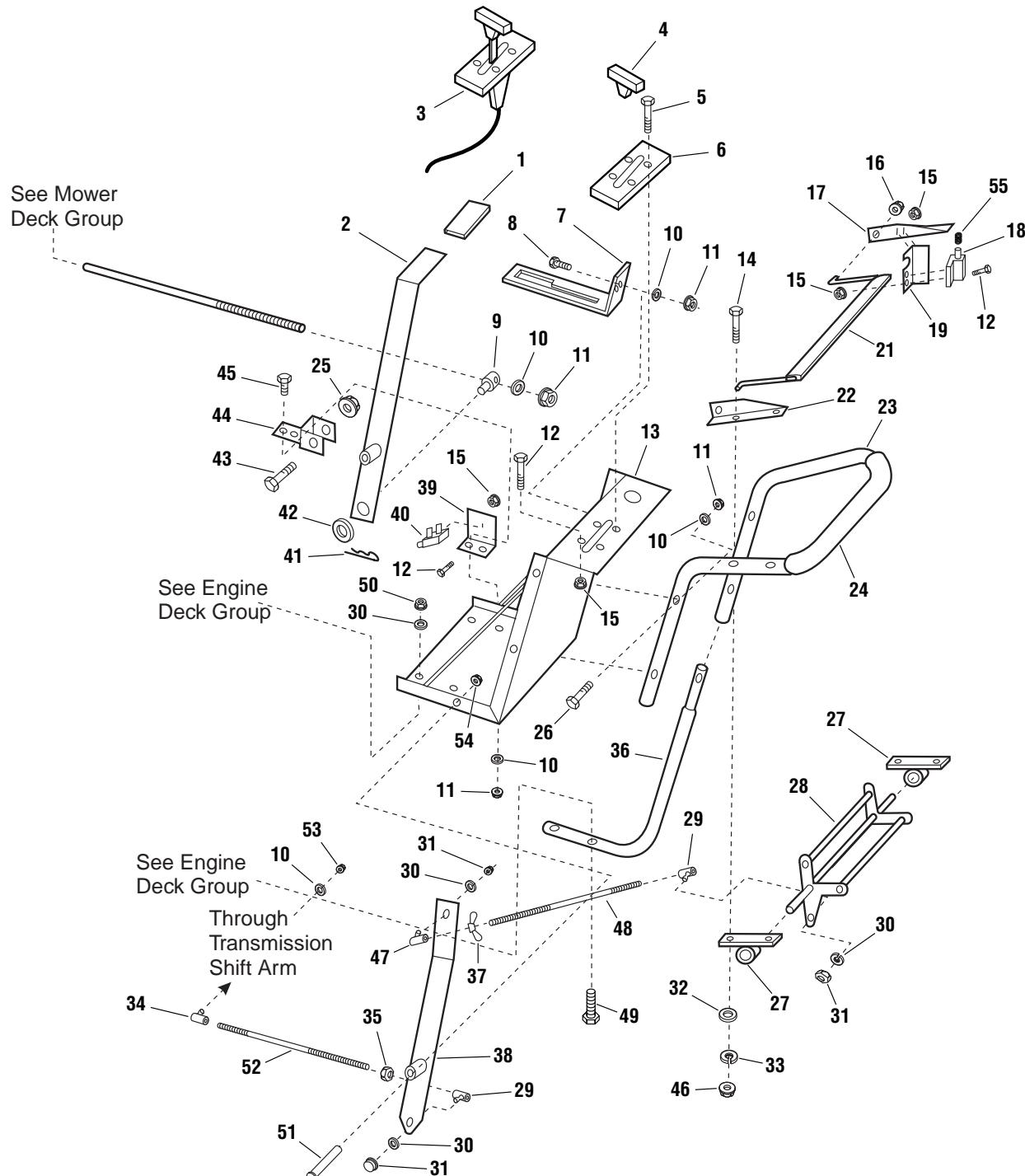
#### The above parts group applies to the following Mfg. Nos.:

1694240 - 13HP      1694252 - 15HP  
 1694204 - 13.5HP      1694249 - 13HP  
 1694205 - 15HP      1694254 - 13HP  
 1694251 - 13.5HP  
 1694253 - 13.5HP  
 1694250 - 15HP

## Handle Parts Group - S/N 011903999 & Below

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.

Q986129



### The above parts group applies to the following Mfg. Nos.:

1694240 - 13HP      1694252 - 15HP  
 1694204 - 13.5HP      1694249 - 13HP  
 1694205 - 15HP      1694254 - 13HP  
 1694251 - 13.5HP  
 1694253 - 13.5HP  
 1694250 - 15HP

**Handle Parts Group - S/N 011903999 & Below**

REF NO.	SIMPLICITY/FERRIS/ SNAPPER PART NO.	GIANT-VAC PART NO.	QTY.	DESCRIPTION
39	1723351	27322	1	Deck Safety Switch Bracket
40	1723552	31481	1	Deck Safety Switch
41	1723597	31382	1	Bridge Pin, #2
42	1924940	31034	1	Washer, 3/8
43	1960462	31461	1	Capscrew, Hex Head, 1/2 x 2-1/2
44	1723596	27321	1	Blade Clutch Engagement Lever Bracket
45	1921333	31282	2	Capscrew, Hex Head, 5/16-18 x 1
46	1916622	31030	8	Nut, Hex, 1/4-20
47	1723558	31402	1	Ball Joint, 3/8-24 RH
48	1723560	23230	1	Transmission Engagement Rod, Upper
49	1922127	31002	4	Capscrew, Hex Head, 5/16-18 x 1-3/4
50	1916950	31009	1	Nut, 3/8-16
51	1723662	31554	1	Bolt, Shoulder, 1/2 x 1 -3/8 to 3/8-16
52	1723555	23250	1	Transmission Engagement Rod, Lower
53	920438	31569	1	Nut, Hex Jam, 5/16-24
54	1960339	31560	1	Nut, Hex Centerlock, 3/8-16
55	1723564	31585	1	Safety switch return spring

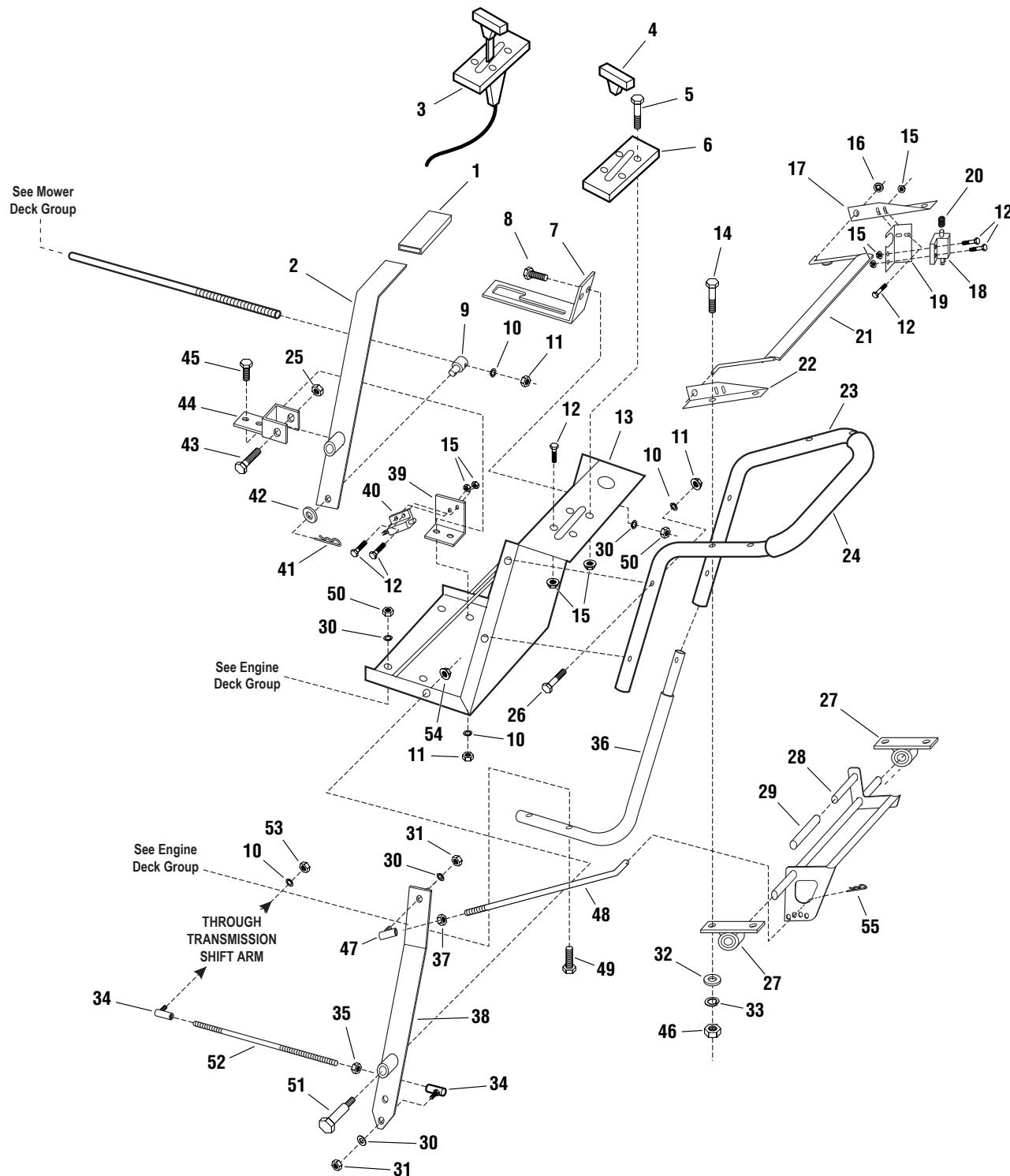
**Footnotes****The above parts group applies to the following Mfg. Nos.:**

1694240 - 13HP 1694252 - 15HP  
1694204 - 13.5HP 1694249 - 13HP  
1694205 - 15HP 1694254 - 13HP  
1694251 - 13.5HP  
1694253 - 13.5HP  
1694250 - 15HP

## Handle Parts Group - S/N 012003001 & Up

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.

Q86129S1



### The above parts group applies to the following Mfg. Nos.:

1694240 - 13HP	1694252 - 15HP
1694204 - 13.5HP	1694249 - 13HP
1694205 - 15HP	1694254 - 13HP
1694251 - 13.5HP	1694378 - 13HP
1694253 - 13.5HP	1694379 - 15HP
1694250 - 15HP	N/A - 16HP

## Handle Parts Group - S/N 012003001 & Up

REF NO.	SIMPLICITY/FERRIS/ SNAPPER PART NO.	GIANT-VAC PART NO.	QTY.	DESCRIPTION
1	1719965	31722	1	Handle grip
2	1723595	23251	1	Blade Clutch Engagement Lever
3	1723686	35014	1	Throttle Control Cable Assembly, 13 HP Honda
3	1723625	35015	1	Throttle Control Cable Assembly, 15 HP Kawasaki
3	1723624	35013	1	Throttle Control Cable assembly, 9 HP Briggs
4	1723626	31584	1	Throttle Control, T-Handle
5	1675044	31000	2	Rivet, 3/16
6	1723623	31586	1	Throttle Speed Indicator Plate
7	1723550	27370	1	Blade Engage Lever Lock Bracket
8	1921210	31033	2	Capscrew, Hex Head, 3/8-16 x 1
9	1723598	31383	1	Rod, Fitting End
10	1917356	31003	10	Lockwasher, 5/16
11	1917372	31004	8	Nut, Hex, 5/16-18
12	1960600	31943	6	Screw, 8-32 x 3/4
13	1723553	10176	1	Control Deck & Dash Panel
14	1921962	31684	4	Capscrew, Hex Head, 1/4-20 x 1-3/4
15	1960222	31949	6	Nut Assembly, 8-32
16	1932718	31425	2	Push Nut, 5/16
17	1723562	27318	1	Safety Bar Pivot Bracket, Left
18	1723563	31480	1	Safety Switch
19	1723565	27320	1	Safety Switch Mounting Bracket
20	1723564	31585	1	Safety switch return spring
21	1723561	23229	1	Safety Bar
22	1723566	27319	1	Safety Bar Pivot Bracket, Right
23	1723572	23227	1	Upper Handle
24	1723568	31590	1	Foam Handle Cover
25	1930644	31406	1	Nut, Hex Flangelock, 1/2-13
26	1921221	31294	4	Capscrew, Hex Head, 5/16-18 x 1-1/2
27	1723570	36244	2	Bearing, 3/4 ID
28	1725232	23508	1	Drive Engagement Bar
29	1725233	32125	1	Handle, Grip, Reverse
30	1916965	31008	9	Lockwasher, 3/8
31	1918403	31568	3	Nut, Jam, 3/8-24
32	1921319	31317	4	Flatwasher, 1/4
33	1916964	31013	4	Lockwasher, 1/4
34	1723554	31295	1	Ball Joint, 5/16-24
35	1723556	31856	1	Nut, Hex Jam, 3/8-24, LH
36	1723569	23228	2	Lower Handle
37	1918403	31568	1	Nut, Jam, 3/8-24
38	1723573	23249	1	Transmission Drive Intermediate Lever

### Footnotes

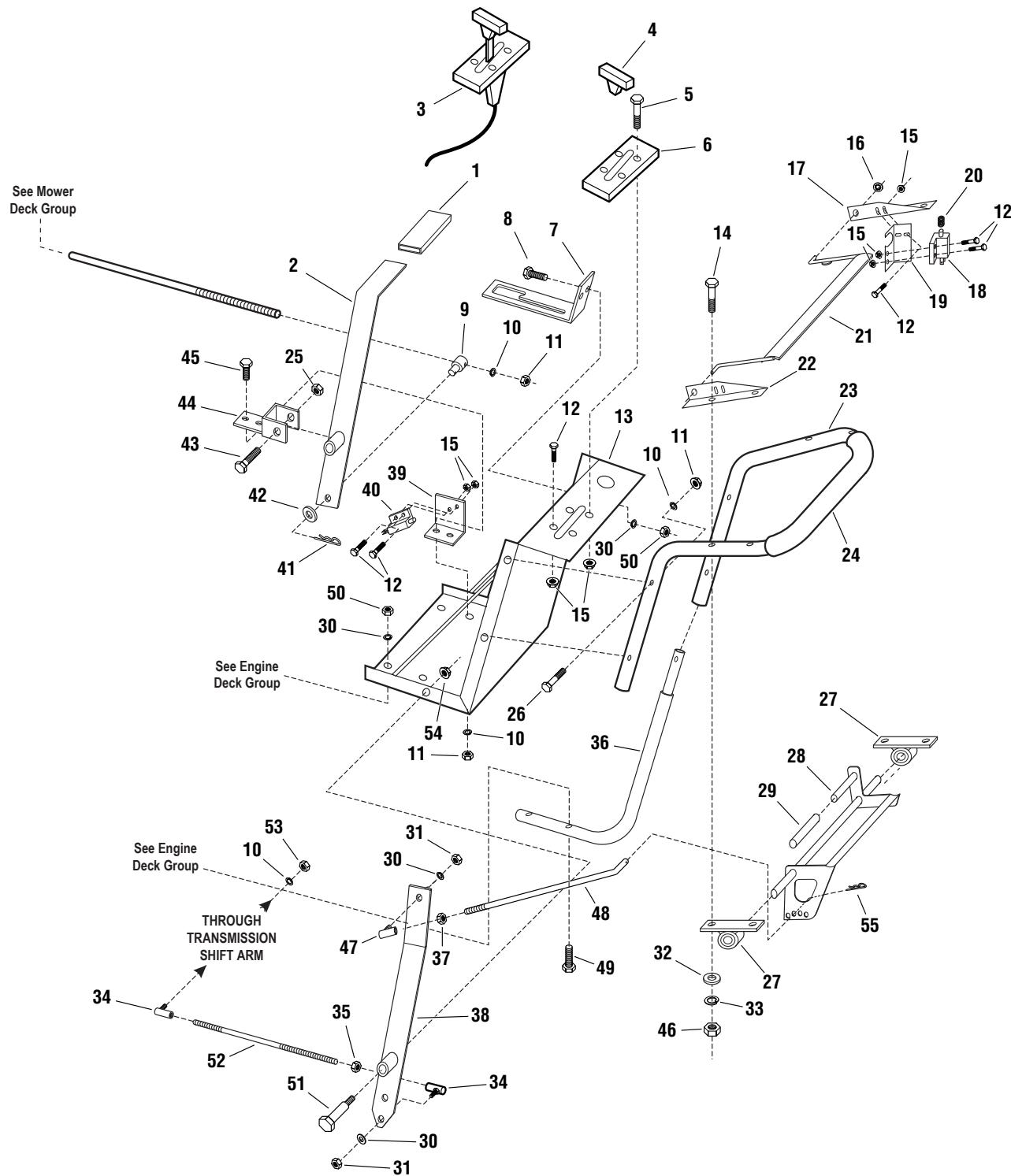
#### The above parts group applies to the following Mfg. Nos.:

1694240 - 13HP      1694252 - 15HP  
 1694204 - 13.5HP      1694249 - 13HP  
 1694205 - 15HP      1694254 - 13HP  
 1694251 - 13.5HP      1694378 - 13HP  
 1694253 - 13.5HP      1694379 - 15HP  
 1694250 - 15HP      N/A - 16HP

## Handle Parts Group - S/N 012003001 & Up

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.

Q86129S1



### The above parts group applies to the following Mfg. Nos.:

1694240 - 13HP	1694252 - 15HP
1694204 - 13.5HP	1694249 - 13HP
1694205 - 15HP	1694254 - 13HP
1694251 - 13.5HP	1694378 - 13HP
1694253 - 13.5HP	1694379 - 15HP
1694250 - 15HP	N/A - 16HP

## Handle Parts Group - S/N 012003001 & Up

REF NO.	SIMPLICITY/FERRIS/ SNAPPER PART NO.	GIANT-VAC PART NO.	QTY.	DESCRIPTION
39	1723351	27322	1	Deck Safety Switch Bracket
40	1723552	31481	1	Deck Safety Switch
41	1723597	31382	1	Bridge Pin, #2
42	1924940	31034	1	Washer, 3/8
43	1960462	31461	1	Capscrew, Hex Head, 1/2 x 2-1/2
44	1723596	27321	1	Blade Clutch Engagement Lever Bracket
45	1921333	31282	2	Capscrew, Hex Head, 5/16-18 x 1
46	1916622	31030	5	Nut, Hex, 1/4-20
47	1723558	31402	1	Ball Joint, 3/8-24 RH
48	1725231	23509	1	Transmission Engagement Rod, Upper
49	1922127	31002	4	Capscrew, Hex Head, 5/16-18 x 1-3/4
50	1916950	31009	6	Nut, 3/8-16
51	1723662	31554	1	Bolt, Shoulder, 1/2 x 1 -3/8 to 3/8-16
52	1723555	23250	1	Transmission Engagement Rod, Lower
53	920438	31569	1	Nut, Hex Jam, 5/16-24
54	1960339	31560	1	Nut, Hex Centerlock, 3/8-16
55	1960033	31382	1	Clip, Hair Pin

### Footnotes

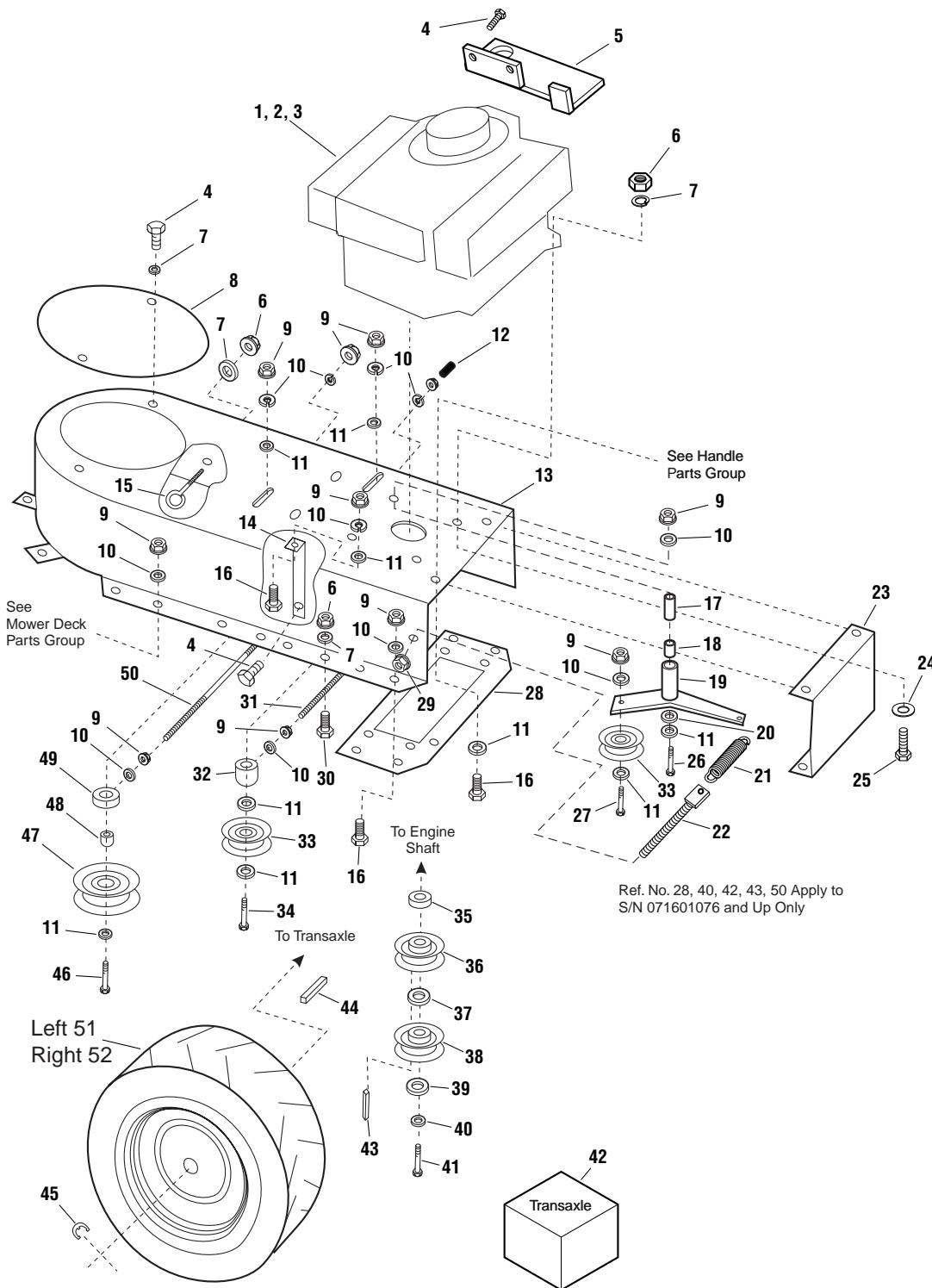
#### The above parts group applies to the following Mfg. Nos.:

1694240 - 13HP 1694252 - 15HP  
1694204 - 13.5HP 1694249 - 13HP  
1694205 - 15HP 1694254 - 13HP  
1694251 - 13.5HP 1694378 - 13HP  
1694253 - 13.5HP 1694379 - 15HP  
1694250 - 15HP N/A - 16HP

## Engine Deck Group - S/N 011903999 & Below

Q986126

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



**The above parts group applies to the following Mfg. Nos.:**

1694240 - 13HP	1694252 - 15HP
1694204 - 13.5HP	1694249 - 13HP
1694205 - 15HP	1694254 - 13HP
1694251 - 13.5HP	
1694253 - 13.5HP	
1694250 - 15HP	

## Engine Deck Group - S/N 011903999 & Below

REF NO.	SIMPLICITY/FERRIS/ SNAPPER PART NO.	GIANT-VAC PART NO.	QTY.	DESCRIPTION
1	1723614	39104	1	Engine - 13.5 HP Briggs & Stratton
2	1723684	39082	1	Engine - 13 HP Honda
3	1723615	39083	1	Engine - 15 HP Kawasaki
4	1921332	31400	10	Capscrew, Hex Head, 5/16-18 x 3/4
5	1723616	27324	1	Auxiliary fuel tank base
6	1917372	31004	4	Nut, Hex, 5/16-18
7	1917356	31003	21	Lockwasher, 5/16
8	1723549	27326	1	Clutch Cover Plate
9	1916950	31009	24	Nut, Hex, 3/8-16
10	1916965	31008	22	Lockwasher, 3/8
11	1924940	31034	16	Flatwasher, 3/8
12	1704723	31863	2	Cap, Black
13	1723593	10227	1	Engine deck (S/N 071601075 & Below)
13	1723803	10242	1	Engine deck (S/N 071601076 & Up)
14	1723575	27315	1	Transmission Forward Mounting Hanger
15	1723574	31618	1	Eyebolt, 5/16-18x3-1/4
16	1921210	31033	7	Capscrew, Hex Head, 3/8-16 x 1
17	1723806	36304	1	Idler Arm Pivot Boss
18	1723805	31224	2	Sleeve Bushing, 3/4 ID
19	1723804	23260	1	Transmission Idler Arm
20	1960170	31043	1	Flatwasher, 1/2
21	1723807	31882	1	Idler Spring
22	1723808	23261	1	Idler Tension Rod
23	1723592	27317	1	Engine deck back cover
24	1918265	31027	4	Washer, Plain, 5/16
25	1921221	31294	4	Capscrew, 5/16-18 x 1-1/2
26	1922918	31883	1	Capscrew, 3/8-16 x 3-1/4
27	1922606	31595	1	Capscrew, 3/8-16 x 1-3/4
28	1723591	27316	1	Lower handle mounting plate
29	1922694	31355	2	3/8-16 Reverse Locknut
30	1921160	31631	4	Capscrew, 5/16-18 x 2-1/4
31	1723594	23226	1	Trans belt idler tensioning rod
32	1723582	36272	1	Transmission Idler Boss
33	1723583	36240	2	Idler Pulley
34	1922648	31719	1	3/8-16 x 4 hex bolt
35	1723585	31717	1	Engine Shaft Spacer, 1"
36	1723586	36268	1	Blade Clutch Drive Pulley
37	1723587	31731	1	Engine Shaft Spacer - 1/4"
38	1723588	36131	1	Transmission Drive Pulley
39	1723640	31716	1	Flatwasher Heavy Duty, 7/16

### Footnotes

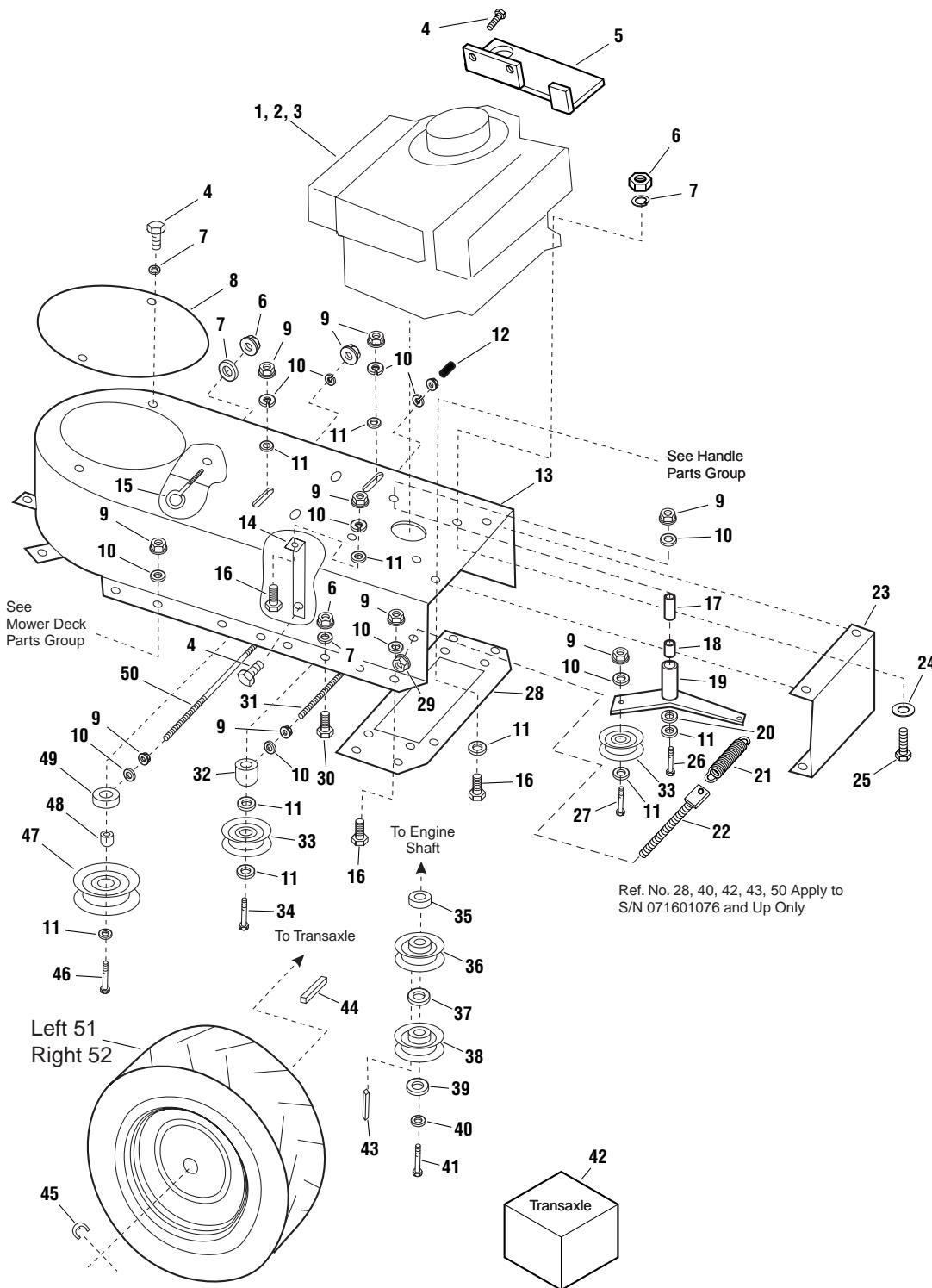
#### The above parts group applies to the following Mfg. Nos.:

1694240 - 13HP      1694252 - 15HP  
 1694204 - 13.5HP      1694249 - 13HP  
 1694205 - 15HP      1694254 - 13HP  
 1694251 - 13.5HP  
 1694253 - 13.5HP  
 1694250 - 15HP

## Engine Deck Group - S/N 011903999 & Below

Q986126

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



### The above parts group applies to the following Mfg. Nos.:

1694240 - 13HP	1694252 - 15HP
1694204 - 13.5HP	1694249 - 13HP
1694205 - 15HP	1694254 - 13HP
1694251 - 13.5HP	
1694253 - 13.5HP	
1694250 - 15HP	

## **Engine Deck Group - S/N 011903999 & Below**

<b>REF NO.</b>	<b>SIMPLICITY/FERRIS/ SNAPPER PART NO.</b>	<b>GIANT-VAC PART NO.</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
40	1918199	31319	1	Lockwasher, 7/16
41	1723589	31857	1	Capscrew, Socket Head, 7/16-20 x 1-1/2
42	1723620	33223	1	Transaxle
43	1723590	31795	1	Key, Engine Shaft, 1/4 x 1/4 x 2-1/8
44	1723584	31720	2	Key, Axle Shaft 3/16 x 3/16 x 1-3/8
45	927794	31418	2	"E" clip
46	1921973	31718	1	Capscrew, Hex Head, 3/8-16 x 3-1/4
47	1723579	36270	1	Blade clutch idler pulley
48	1723578	31686	1	Idler pulley spacer bushing
49	1723577	36271	1	Blade Clutch Idler Boss
50	1723576	23225	1	Blade Clutch Idler Tensioning Rod
51	1723580	33204	1	Drive Wheek, Left
52	1723581	33205	1	Drive Wheel, Right (not shown)

### **Footnotes**

---

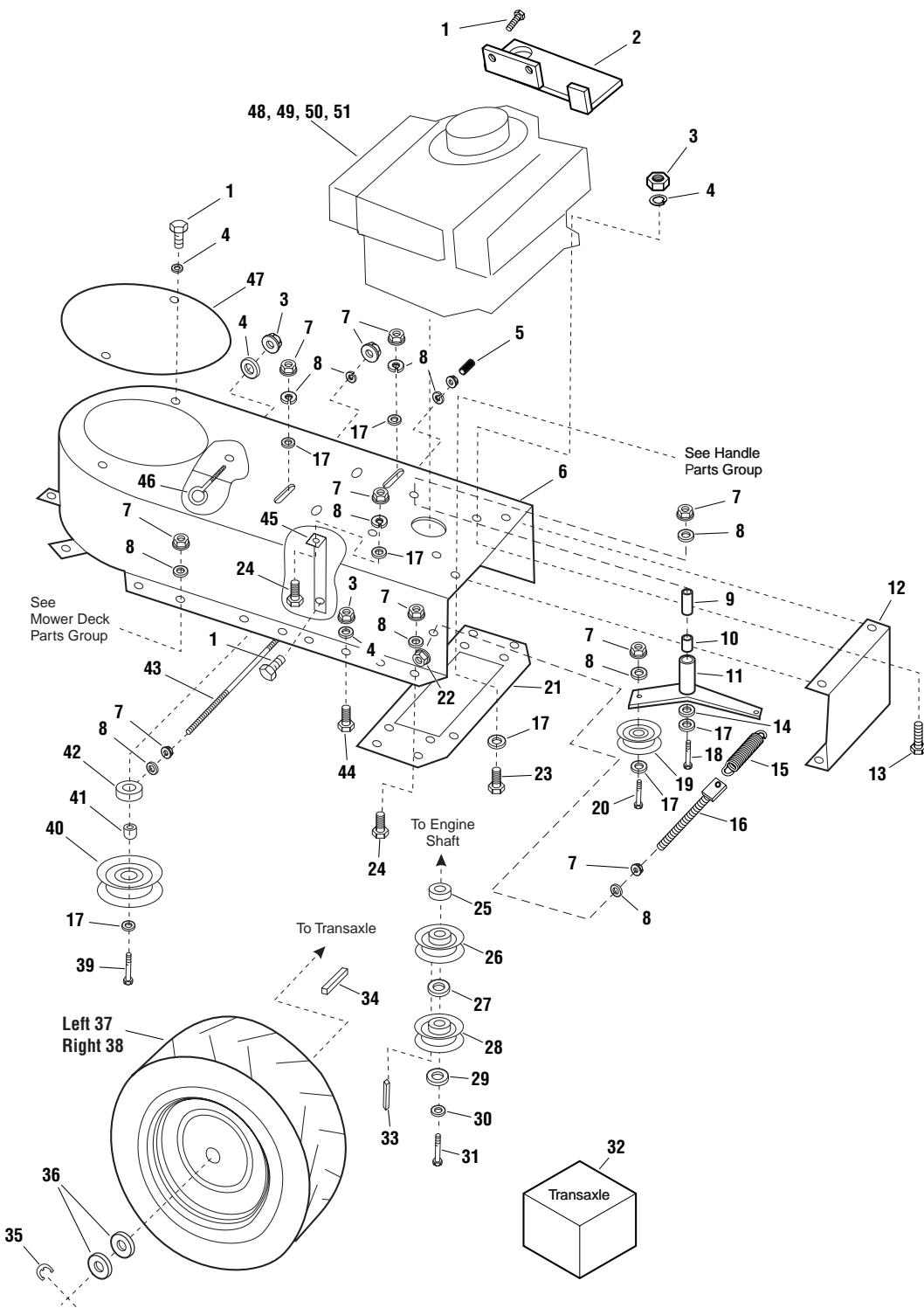
#### **The above parts group applies to the following Mfg. Nos.:**

1694240 - 13HP      1694252 - 15HP  
1694204 - 13.5HP      1694249 - 13HP  
1694205 - 15HP      1694254 - 13HP  
1694251 - 13.5HP  
1694253 - 13.5HP  
1694250 - 15HP

## Engine Deck Group - S/N 012003001 & Up

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.

Q86126S1



### The above parts group applies to the following Mfg. Nos.:

1694204 - 13.5HP	1694254 - 13HP
1694251 - 13.5HP	1694378 - 13HP
1694253 - 13.5HP	1694379 - 15HP
1694250 - 15HP	N/A - 16HP
1694252 - 15HP	
1694249 - 13HP	

## Engine Deck Group - S/N 012003001 & Up

REF NO.	SIMPLICITY/FERRIS/ SNAPPER PART NO.	GIANT-VAC PART NO.	QTY.	DESCRIPTION
1	1921332	31400	10	Capscrew, Hex Head, 5/16-18 x 3/4
2	1723616	27324	1	Auxiliary fuel tank base
3	1917372	31004	4	Nut, Hex, 5/16-18
4	1917356	31003	19	Lockwasher, 5/16
5	1704723	31863	2	Cap, Black
6	1723803	10242	1	Engine Deck (S/N 071601076 & Up)
6	1723593	10227	1	Engine Deck (S/N 071601075 & Below)
7	1916950	31009	24	Nut, Hex, 3/8-16
8	1916965	31008	22	Lockwasher, 3/8
9	1723806	36304	1	Idler Arm Pivot Boss
10	1723805	31224	2	Sleeve Bushing, 3/4 ID
11	1723804	23260	1	Transmission Idler Arm
12	1723592	27317	1	Engine deck back cover
13	1921221	31294	4	Capscrew, 5/16-18 x 1-1/2
14	1960170	31043	1	Flatwasher, 1/2
15	1723807	31882	1	Idler Spring
16	1723808	23261	1	Idler Tension Rod
17	1924940	31034	9	Flatwasher, 3/8
18	1922918	31883	1	Capscrew, 3/8-16 x 3-1/4
19	1723583	36240	1	Idler Pulley
20	1922606	31595	1	Capscrew, 3/8-16 x 1-3/4
21	1723591	27316	1	Lower handle mounting plate
22	1922694	31355	2	Nut, Hex 3/8-16
23	1920415	31097	2	Capscrew, 3/8-16 x 1-1/4
24	1921210	31033	7	Capscrew, Hex Head, 3/8-16 x 1
25	1725228	32124	1	Engine Shaft Spacer, 7/8"
26	1723586	36268	1	Blade Clutch Drive Pulley
27	960530	32101	1	Spacer, 1/8"
28	1723588	36131	1	Transmission Drive Pulley
29	1723640	31716	1	Flatwasher Heavy Duty, 7/16
30	1918199	31319	1	Lockwasher, 7/16
31	1723589	31857	1	Capscrew, Socket Head, 7/16-20 x 1-1/2
32	1723620	33223	1	Transaxle
33	1723590	31795	1	Key, Engine Shaft, 1/4 x 1/4 x 2-1/8
34	1723584	31720	2	Key, Axle Shaft 3/16 x 3/16 x 1-3/8
35	927794	31418	2	"E" clip
36	1725225	31074	4	Washer
37	1723580	33204	1	Drive Wheek, Left
38	1723581	33205	1	Drive Wheel, Right (not shown)
39	1921973	31718	1	Capscrew, Hex Head, 3/8-16 x 3-1/4

### Footnotes

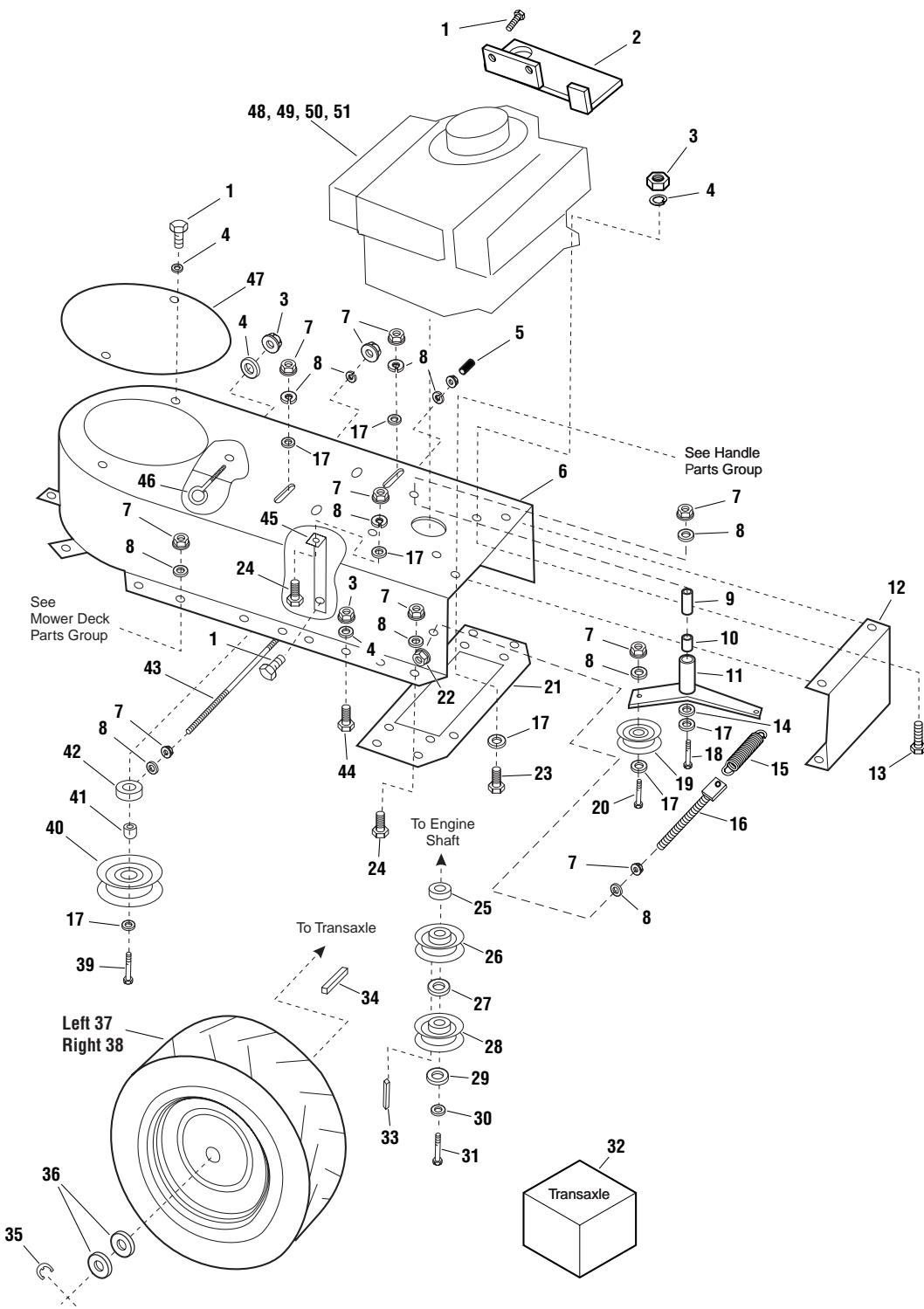
#### The above parts group applies to the following Mfg. Nos.:

1694204 - 13.5HP      1694254 - 13HP  
 1694251 - 13.5HP      1694378 - 13HP  
 1694253 - 13.5HP      1694379 - 15HP  
 1694250 - 15HP      N/A - 16HP  
 1694252 - 15HP  
 1694249 - 13HP

## Engine Deck Group - S/N 012003001 & Up

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.

Q86126S1



### The above parts group applies to the following Mfg. Nos.:

1694204 - 13.5HP      1694254 - 13HP  
 1694251 - 13.5HP      1694378 - 13HP  
 1694253 - 13.5HP      1694379 - 15HP  
 1694250 - 15HP      N/A - 16HP  
 1694252 - 15HP  
 1694249 - 13HP

## ***Engine Deck Group - S/N 012003001 & Up***

<b>REF NO.</b>	<b>SIMPLICITY/FERRIS/ SNAPPER PART NO.</b>	<b>GIANT-VAC PART NO.</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
40	1723579	36270	1	Blade clutch idler pulley
41	1723578	31686	1	Idler pulley spacer bushing
42	1723577	36271	1	Blade Clutch Idler Boss
43	1723576	23225	1	Blade Clutch Idler Tensioning Rod
44	1921160	31631	4	Capscrew, 5/16-18 x 2-1/4
45	1723575	27315	1	Transmission Forward Mounting Hanger
46	1723574	31618	1	Eyebolt, 5/16-18x3-1/4
47	1723549	27326	1	Clutch Cover Plate
48	1723614	39107	1	Engine - 13.5 HP Briggs & Stratton
49	1723684	39082	1	Engine - 13 HP Honda
50	1723615	39083	1	Engine - 15 HP Kawasaki
51		39116	1	Engine - 16 HP Briggs & Stratton

### **Footnotes**

---

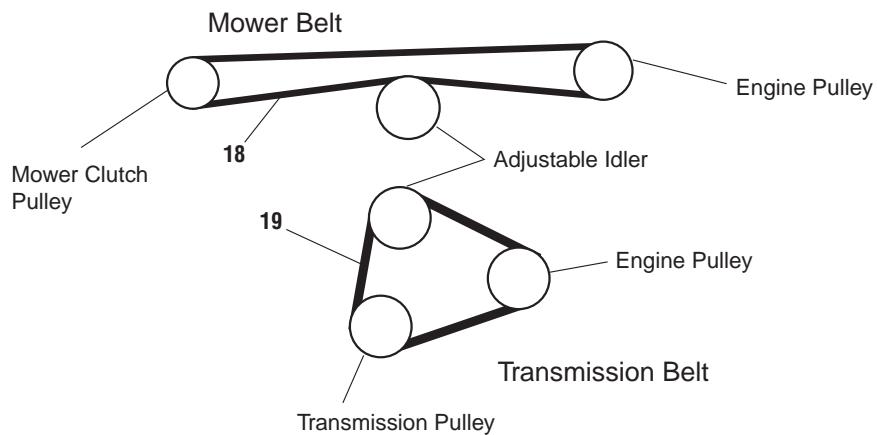
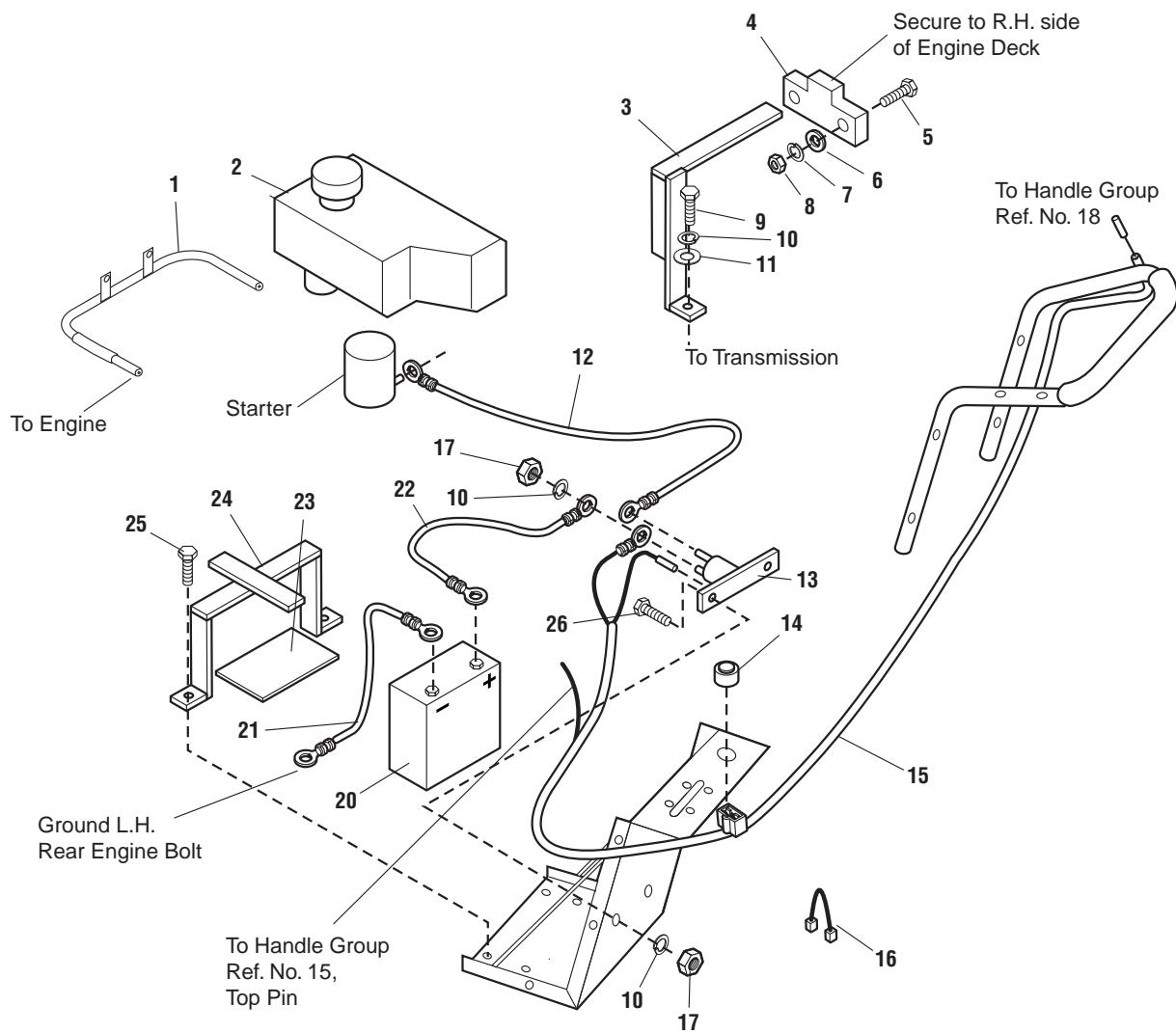
#### **The above parts group applies to the following Mfg. Nos.:**

1694204 - 13.5HP 1694254 - 13HP  
1694251 - 13.5HP 1694378 - 13HP  
1694253 - 13.5HP 1694379 - 15HP  
1694250 - 15HP N/A - 16HP  
1694252 - 15HP  
1694249 - 13HP

## Electrical & Misc. Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.

Q986132



**The above parts group applies to the following Mfg. Nos.:**

1694240 - 13HP	1694252 - 15HP
1694204 - 13.5HP	1694249 - 13HP
1694205 - 15HP	1694254 - 13HP
1694251 - 13.5HP	1694378 - 13HP
1694253 - 13.5HP	1694379 - 15HP
1694250 - 15HP	N/A - 16HP

## Electrical & Misc. Group

REF NO.	SIMPLICITY/FERRIS/ SNAPPER PART NO.	GIANT-VAC PART NO.	QTY.	DESCRIPTION
1	1723685	31728	1	Auxiliary Fuel Line w/Clamps - 9" - 13 HP Honda
1	1723619	31729	1	Auxiliary Fuel Line w/Clamps - 18" - 15 HP Kawasaki & 13.5 Briggs & Stratton
2	1723618	27323	1	Auxiliary Fuel Tank
3	1723621	23253	1	Bracket
4	1723622	27371	1	Plate, Lock Engage / Disengage
5	1921332	31400	2	Capscrew, 5/16-18 x 3/4
6	1918265	31027	2	Flatwasher, 5/16
7	1917356	31003	2	Lockwasher, 5/16
8	1917372	31004	2	Nut, Hex, 5/16-28
9	1935105	31798	1	Capscrew, Hex Head, 1/4-28 x 5/8
10	1916964	31013	5	Lockwasher, 1/4
11	1921319	31317	1	Flatwasher, 1/4
12	1723639	31727	1	Cable - Solenoid to Starter Coil
13	1723641	31730	1	Solenoid
14	1723631	31385	1	Keyed start switch
14	1723627	31384	1	Keyed off switch (manual start units only)
14		32011	1	Keyed off switch, Honda Models
15	1723632	32002	1	Wire Harness, Honda
15	1724057	32003	1	Wire Harness, Briggs & Stratton
15	1724058	32004	1	Wire Harness, Kawasaki
16		32014	1	Wire, Jumper, Honda Models
17	1916622	31030	4	Nut, Hex, 1/4-20
18	1723629	36269	1	Belt, Blade Clutch Drive
19	1723630	36281	1	Belt, Transmission Drive
20	1723633	39058	1	Battery
21	1725226	31634	1	Cable, Battery Negative to Ground
22	1723637	31725	1	Cable, Battery Positive to Solenoid
23	1723634	31681	1	Battery Rubber
24	1723635	31612	1	Battery Hold-Down
25	1723636	31562	2	Capscrew, TEK, #12 x 3/4
26	1923341	31316	2	Capscrew, Hex Head, 1/4-20 x 3/4

### Footnotes

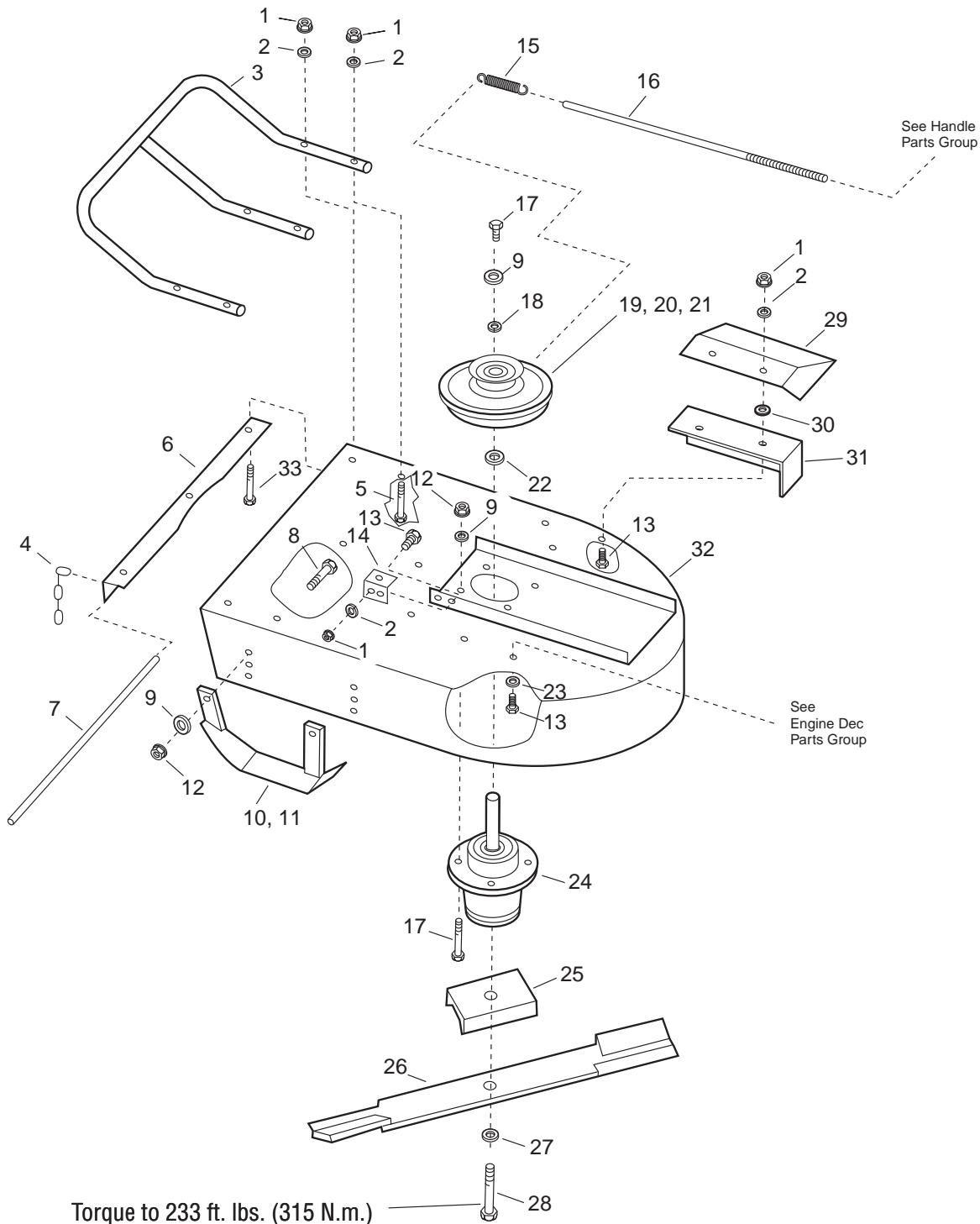
#### The above parts group applies to the following Mfg. Nos.:

1694240 - 13HP	1694252 - 15HP
1694204 - 13.5HP	1694249 - 13HP
1694205 - 15HP	1694254 - 13HP
1694251 - 13.5HP	1694378 - 13HP
1694253 - 13.5HP	1694379 - 15HP
1694250 - 15HP	N/A - 16HP

## Mower Deck Parts Group

986092

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



### The above parts group applies to the following Mfg. Nos.:

1694240 - 13HP	1694252 - 15HP
1694204 - 13.5HP	1694249 - 13HP
1694205 - 15HP	1694254 - 13HP
1694251 - 13.5HP	1694378 - 13HP
1694253 - 13.5HP	1694379 - 15HP
1694250 - 15HP	N/A - 16HP

## Mower Deck Parts Group

REF NO.	SIMPLICITY/FERRIS/ SNAPPER PART NO.	GIANT-VAC PART NO.	QTY.	DESCRIPTION
1	1917372	31004	10	Nut, Hex, 5/16
2	1917356	31003	10	Lockwasher, 5/16
3	1723532	23224	1	Front Bumper Bar
4	1723533	31713	23	Chain Curtain Length
5	1921221	31006	3	Capscrew, Hex Head, 5/16-18 x 1-1/2 (bumper rear holes)
6	1723534	27312	1	Chain Curtain Bracket
7	1723535	31714	1	Chain Curtain Mounting Rod
8	1921210	31033	11	Capscrew, Hex Head, 3/8-16 x 1
9	1916965	31008	9	Lockwasher, 3/8
10	1723536	33201	1	Blade Deck Skid - Left
11	1723537	33202	1	Blade Deck Skid - Right (not shown)
12	1916950	31009	8	Nut, Hex, 3/8-16
13	1921332	31400	4	Capscrew, Hex Head, 5/16-18 x 3/4
14	1723538	27313	1	Anti-torque Bracket
15	1723657	31466	1	Clutch Spring
16	1723539	23252	1	Blade Clutch Engagement Rod
17	1921969	31112	5	Capscrew, Hex Head, 3/8-16 x 1-1/2
18	1723640	31716	1	Flatwasher, Heavy Duty, 7/16 x 1-1/2
19	1723540	36267	1	Clutch Assembly
20	1921333	31032	1	Capscrew, Hex Head, Anti-torque, 5/16-18 x 1 (Not Shown)
21	1923362	31436	1	Nut, Hex Centerlock, 5/16-18 (Not Shown)
22	1723541	31715	1	Clutch Spacer - 1/4
23	1924940	31034	3	Washer, 3/8
24	1723542	36266	1	Blade SpindleAssembly
25	1723543	27314	1	Cutting Blade Reinforcement Channel
26	1723544	21574	1	Cutting Blade
27	1917373	31326	1	Lockwasher, 5/8
28	1725227	31973	1	Capscrew, Socket Head, 5/8-11 x 1-1/2
29	1723546	24618	1	Discharge Deflector
30	1918265	31027	2	Washer, 5/16
31	1723547	24631	1	Discharge Cover
32	1723548	10226	1	Blade Deck
33	1921227	31002	3	Capscrew, Hex Head, 5/16-18 x 1-3/4 (bumper front holes)

### Footnotes

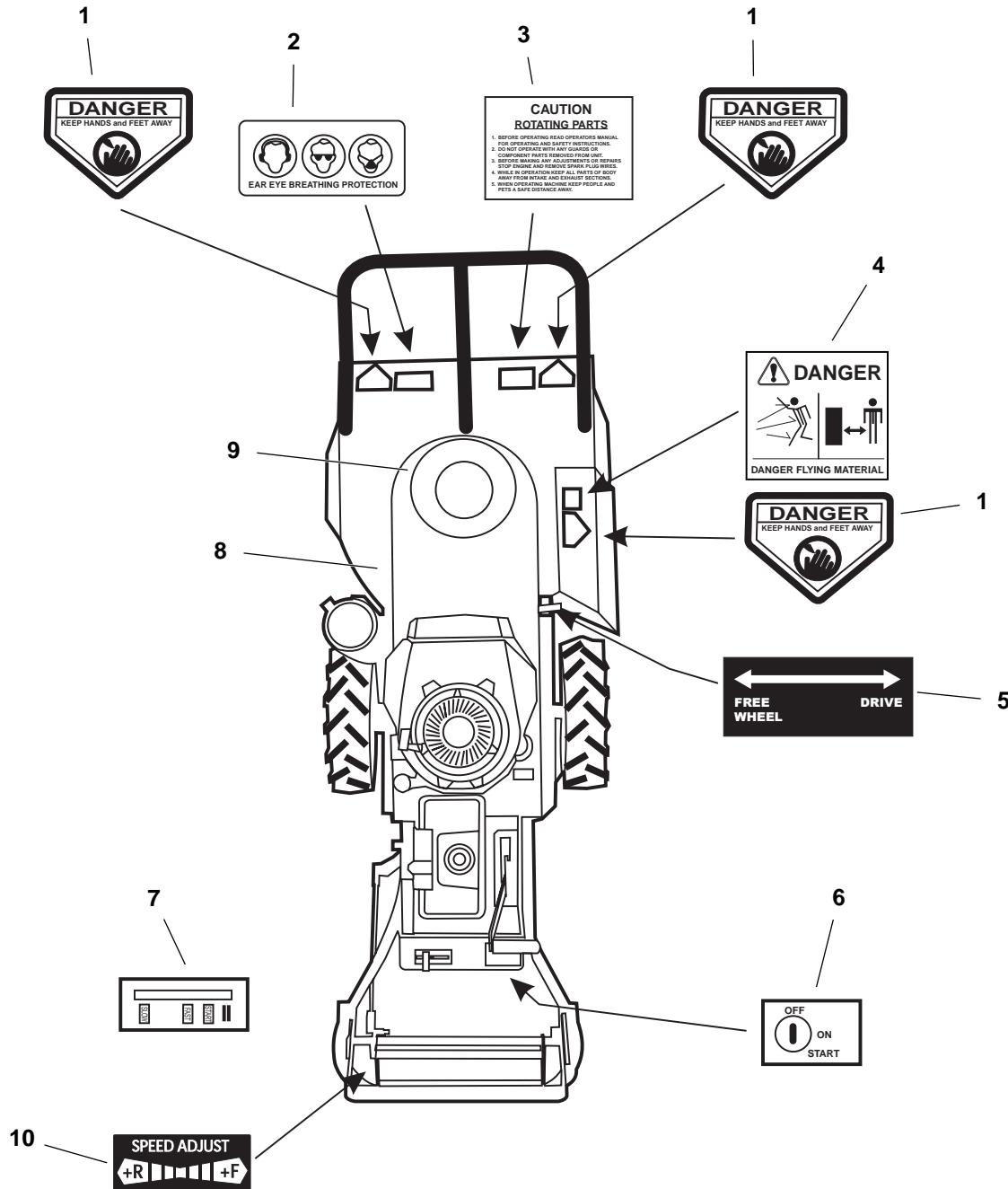
#### The above parts group applies to the following Mfg. Nos.:

1694240 - 13HP      1694252 - 15HP  
 1694204 - 13.5HP      1694249 - 13HP  
 1694205 - 15HP      1694254 - 13HP  
 1694251 - 13.5HP      1694378 - 13HP  
 1694253 - 13.5HP      1694379 - 15HP  
 1694250 - 15HP      N/A - 16HP

## Decals Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.

986133



Ref. No. 10 Apply to  
S/N 012003001 and Up Only

### The above parts group applies to the following Mfg. Nos.:

1694240 - 13HP	1694252 - 15HP
1694204 - 13.5HP	1694249 - 13HP
1694205 - 15HP	1694254 - 13HP
1694251 - 13.5HP	1694378 - 13HP
1694253 - 13.5HP	1694379 - 15HP
1694250 - 15HP	N/A - 16HP

## Decals Group

REF NO.	SIMPLICITY/FERRIS/ SNAPPER PART NO.	GIANT-VAC PART NO.	QTY.	DESCRIPTION
1	1723667	79090	3	Decal, Danger
2	1723671	79092	1	Decal, Ear Eye Protection Req.
3	1723672	79091	1	Decal, Rotating Parts
4	1723673	79088	1	Decal, Thrown Objects
5	1725229	79236	1	Decal, Transmission Drive
6	1723665	79089	1	Decal, Key Switch
7	1723664	31586	1	Decal, Throttle Control
8	1723687	79172	1	Decal, Pin Stripe
9	1722551	79178	1	Decal, Simplicity Logo
9		79179	1	Decal, Ferris Logo
9		79168	1	Decal, Giant-Vac Logo
9	1725061		1	Decal, Snapper
10	1725230	79237	1	Decal, Speed Adjust

## Footnotes

---

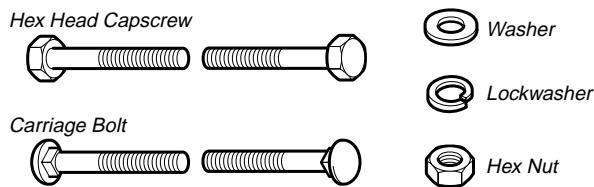
### The above parts group applies to the following Mfg. Nos.:

1694240 - 13HP 1694252 - 15HP  
1694204 - 13.5HP 1694249 - 13HP  
1694205 - 15HP 1694254 - 13HP  
1694251 - 13.5HP 1694378 - 13HP  
1694253 - 13.5HP 1694379 - 15HP  
1694250 - 15HP N/A - 16HP



# Hardware Identification & Torque Specifications

## Common Hardware Types

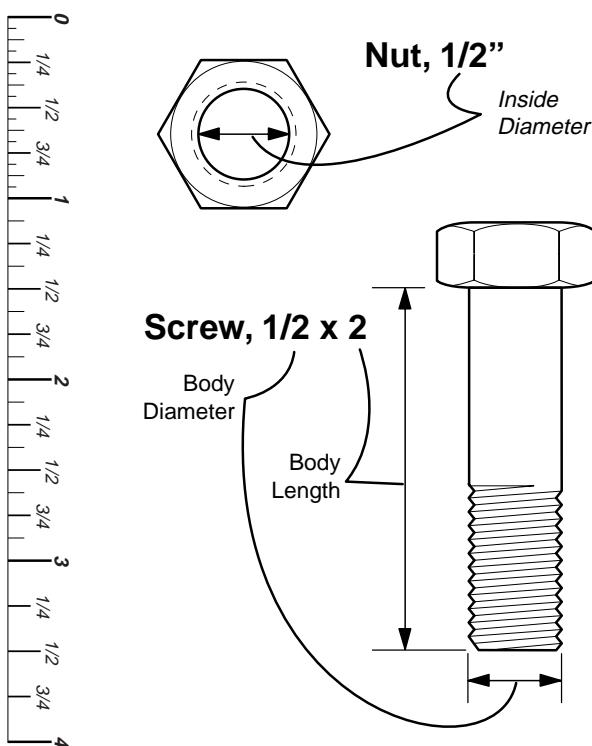


## Standard Hardware Sizing

When a washer or nut is identified as **1/2"**, this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch; if a second number is present it represents the *threads per inch*.

When bolt or capscrew is identified as **1/2 - 16 x 2"**, this means the *Nominal size*, or *body diameter* is 1/2 inch; the second number represents the *threads per inch* (16 in this example), and the final number is the *body length* of the bolt or screw (in this example 2 inches long).

**The guides and ruler furnished below are designed to help you select the appropriate hardware and tools.**



## Torque Specification Chart

FOR STANDARD MACHINE HARDWARE (Tolerance  $\pm 20\%$ )

Hardware Grade	No Marks		SAE Grade 5		SAE Grade 8	
	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	27	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

### NOTES

1. These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
2. Recommended seating torque values for locknuts:
  - a. for prevailing torque locknuts - use 65% of grade 5 torques.
  - b. for flange whizlock nuts and screws - use 135% of grade 5 torques.
3. Unless otherwise noted on assembly drawings, all torque values must meet this specification.

## Wrench & Fastener Size Guide



1/4" Bolt or Nut  
Wrench—7/16"



5/16" Bolt or Nut  
Wrench—1/2"



3/8" Bolt or Nut  
Wrench—9/16"



7/16" Bolt or Nut  
Wrench (Bolt)—5/8"  
Wrench (Nut)—11/16"



1/2" Bolt or Nut  
Wrench—3/4"

***Simplicity***

---

MANUFACTURING, INC.

500 N. Spring Street / PO Box 997  
Port Washington, WI 53074-0997 USA

[www.simplicitymfg.com](http://www.simplicitymfg.com)

© Copyright 2003 Simplicity Manufacturing, Inc.  
All Rights Reserved. Printed In USA.